



# Northwest

Life Science Specialties, LLC

## Anti 4-hydroxy-2-nonenal (4HNE) Monoclonal Clone HNEJ-2

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- Catalog Number:** NWA-HNE100
- Description:** Murine IgG<sub>1κ</sub> anti 4-hydroxy-2-nonenal monoclonal antibody (100μg ammonium sulphate purified IgG per Vial).
- Specificity:** Specific for 4HNE-Lysine adduct in all species.
- Format:** Lyophilized as 100μg/mL IgG in 100μg/mL IgG in 50mM Tris buffered saline (TBS).
- Antigen:** 4-Hydroxy-2-nonenal (4HNE) modified keyhole limpet hemocyanin.
- Reconstitution:** Reconstitute with 1 mL distilled water to yield 100 μg/mL stock solution.
- Suggested Use:** IHC, Western and/or ELISA  
Immunohistochemistry [ref.1] (Recommended concentration: 25μg/mL IgG)  
Western blotting [ref.2] (Recommended concentration: 15μg/mL IgG)  
  
User should determine optimum titer for each application.
- Cross Reactivity:** This antibody has almost negligible reactivity with proteins that were treated with other aldehydes, such as 2-nonenal, 2-hexenal, 1-hexanal, 4-hydroxy-2-hexenal, formaldehyde, or glutaraldehyde.  
  
By inhibition test, this antibody shows a much higher affinity for the 4-HNE-histidine adduct than 4-HNE-lysine or 4-HNE-cysteine adduct.
- Stability:** Stable for 5 years as supplied (lyophilized powder).
- Storage:** Store at -20 °C upon arrival. After reconstitution freeze single use aliquots at -20 °C or lower. Avoid repeated freeze/thaw.
- References:** T.Tanaka et al. (1997) Laboratory Investigation 77:2, p145155  
S.Toyokuni et al. (1995) FEBS Letters 359, p189191

**For Research Use Only**

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